





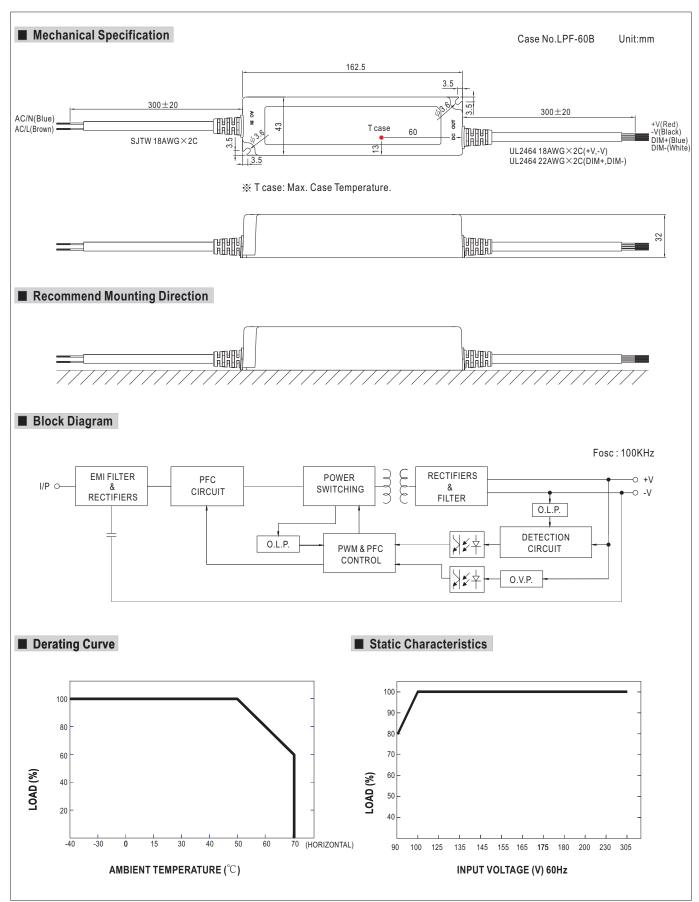


- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 89%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- Class Ⅱ power unit, no FG
- Class 2 power unit
- Built-in 3 in 1 dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and moving sign applications
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty



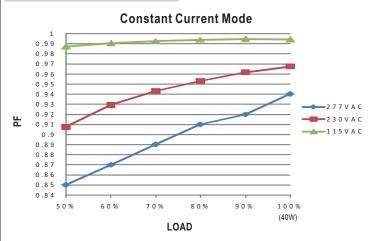
MODEL		LPF-40D-12	LPF-40D-15	LPF-40D-20	LPF-40D-24	LPF-40D-30	LPF-40D-36	LPF-40D-42	LPF-40D-48	LPF-40D-54				
DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V				
	RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A				
	RATED POWER	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p				
	VOLTAGE TOLERANCE Note.3		±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%				
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
					0ms, 80ms / 23				_ 0.070	_ 0.070				
	HOLD UP TIME (Typ.)	16ms/230VA		15VAC at full	-	· · · · ·								
		90 ~ 305VAC	127 ~ 43											
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)												
INPUT	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	89%	89%				
INFOI	AC CURRENT (Typ.)					00 /0	00 /0	00.370	0970	0970				
	INRUSH CURRENT (Typ.)	0.6A / 115VAC 0.3A / 230VAC 0.25A / 277VAC COLD START 50A(twidth=210 μs measured at 50% Ipeak) at 230VAC												
	, , ,	COLD START 50A(twidth=210 \(mu\)s measured at 50% Ipeak) at 230VAC <0.75mA / 240VAC												
	LEAKAGE CURRENT		UVAC											
	OVER CURRENT Note.4	95 ~ 108%												
		Protection type: Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.												
PROTECTION	SHORT CIRCUIT						11 101	10 501	E4 001/	50 001				
	OVER VOLTAGE	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V				
		Protection type: Shut down and latch off o/p voltage, re-power on to recover												
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover												
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)											
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyd	cle, period for	72min. each ald	ong X, Y, Z axe	S							
	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP67, J61347-1, J61347-2-13												
	SAFETT STANDARDS Note.0	approved ; design refer to UL60950-1, TUV EN60950-1												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC											
EMC	ISOLATION RESISTANCE	I/P-O/P:100N	// Ohms / 500V	'DC / 25°C / 70	% RH									
	EMC EMISSION	Compliance to	EN55015, EN	N61000-3-2 CI	ass C (≧60%	load) ; EN6100	0-3-3							
	EMC IMMUNITY	Compliance to	EN61000-4-2	2,3,4,5,6,8,11;	EN61547, EN5	5024, light indi	ustry level(surg	e 2KV), criteri	аА					
	MTBF	394.9K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	162.5*43*32mm (L*W*H)												
	PACKING	0.45Kg; 32pcs/15.4Kg/0.93CUFT												
NOTE	Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N Derating may be needed ur Suitable for indoor use or or Length of set up time is me The power supply is consident complete installation, the fin	wentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation.												





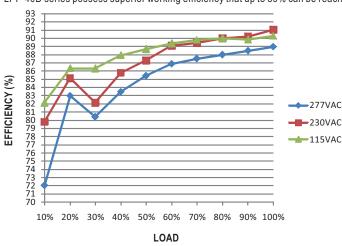


■ Power Factor Characteristic



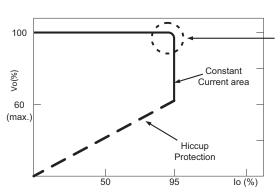
■ EFFICIENCY vs LOAD (48V Model)

LPF-40D series possess superior working efficiency that up to 89% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



■ DIMMING OPERATION



- X Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	10K Ω	20ΚΩ	30K Ω	40K Ω	50KΩ	60KΩ	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω/N	50K Ω/N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

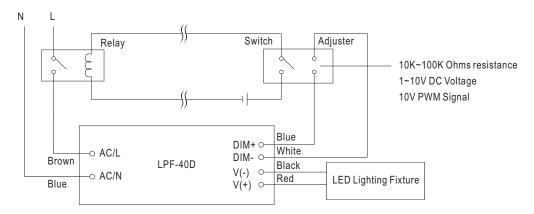
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

💥 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

X Using the built-in dimming function on LPF-40D can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

Dimming connection diagram for turning the lighting fixture ON/OFF:



Using a switch and relay can turn ON/OFF the lighting fixture.

- $1. Output constant current level can be adjusted through output cable by connecting a resistor or 1 \\ ^{10}Vdc or 10V PWM signal between DIM+ and DIM-.$
- 2.The LED lighting fixture can be turned ON/OFF by the switch.